PTO 1449 REPRODUCED



APPLICATION NO.

SECOND	SUPPLEMENTAL	INFORMATION DISCE	OSTRE
	CI	ration 🧪 😅 🗀	49)
	IN AN A	PPLICATION	

(formerly BU94-15A2) APPLICANT

ATTORNEY DOCKET NO.

0054.1037-005

09/018,194ECEIVED

November 27, 2000 NOV 3 0 2000

Barbara A. Gilchrest et al.

DEC 0 6 2000

FILING DATE

GROUP 16,47

	Use	several sheets if nece	<u> </u>	February 4, 1998	1645	TECH CE	NTER 1600/2900
		`	TARRET NO.S.	PATENT DOCUMENTS			
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DA IF APPROPRIA
	_						
		r	FOREIG	N PATENT DOCUMENTS	<u></u>		T
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATI YES 1
52W	AN2	JP 11 029441 A	02-FEB-99	Patent Abstracts of Japan			
		OTHER DOCUMENTS	(Including Au	thor, Title, Date, Pertine	nt Pages,	Etc.)	
Siw	AU8	blocked by cycl:	ic peptides	ion of p75 nerve growt containing a lysine-g	lycine-a	alanine	(KGA)

motif," Jour. of Investigative Dermatology, 110(4):481 (1998)

EXAMINER

DATE CONSIDERED 0/25/01

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSL YES	IOITA. ON
AL							
AM		•					
AN							
AO							
AP							
AQ							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR

AS

DATE CONSIDERED 10.12 5.0



		ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194					
INFORMATION DISCLOSURE CITATION  IN AN APPLICATION		APPLICANT Barbara A. Gilchrest et al.						
001	(Use 2 6 1991	ye eral sheets if nece ຫຼື	ssary)	FILING DATE February 4, 1998	GROUP	1614  6"	17	
12		<u> </u>	U.S. I	PATENT DOCUMENTS	<u> </u>			
EXAM d ) INER INI- TIAL	RADEMAR	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	ΙF	G DATE
72W	AA	4,621,023	11/4/86	Redziniak, et al.	428	402.2	<b>-</b>	
SLV	AB	5,077,211	12/31/91	Yarosh	435	193		1
	FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANS: YES	LATION NO
SW	AL	JP63183518	28-07-88	Japan (Abstract)				1
	AM	JP63301810	08-12-88	Japan (Abstract)				
	AN	96/12955	2-May-96	PCT				
	AO	92/18149	29-Oct-92	PCT				
	AP	0 584 452 A1	02-Mar-94	EPO				
	AQ	95/21193	10-Aug-95	PCT				
		OTHER DOCUMENTS	(Including Aut	hor, Title, Date, Pertine	nt Pages,	Etc.)	-	
SLW	Zhai, S. et al., "A Role for P75 Nerve Growth Factor Receptor in Programmed Melanocyte Cell Death After Injury and With Aging,"  Journal of Investigative Dermatology 102(4):545, SID Abstract  #131 (1994)							
	AS	Yaar, M. et al., "Cloning and Expression of a Novel Nerve Growth Factor Related Molecule in Human Skin," Journal of Investigative Dermatology 100(4):548, Abstract #100 (1993)						
	Yaar, M. et al., "Melanocyte Function in Human Skin is Modulated by Neurotrophic Factors through TRK Receptors," Journal of Investigative Permatology 100(4):511, Abstract #134 (1993)					ed		
EXAMI	NER -	Landa Via		DATE CONSIDERED 10/25	101			

FCRM PTO	80)		ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194	
INI			APPLICANT Barbara A. Gilchrest et al.		
0\ F	Fuse sev	Filing Date February 4, 1998  GROUP February 4, 1998  GROUP			
007 5	<del>9 1998 3</del>	THER DOCUMENTS (Including A	uthor, Title, Date, Pertinen	t Pages, Etc.)	
SLW	ADEMARA	Zhai, Sen et al., "Ne	rve Growth Factor (NGF " Journal of Investiga	) Enhances Survival	
	AV		lvement of TRK Proto-C f Human Melanocytes," acts, (1992)		
	AW	Price, Vera H., "Alop Investigative Dermato	pecia Areata: Clinical plogy 96(5), Supplement	Aspects," Journal of ::68S (1991)	
	AX	and Differentiation:	rest, Barbara A, "Humar A Decade of New Data,' ology 97(4):611-617 (19	' Journal of	
	AY	Goldsmith, Lowell A., "Summary of Alopecia Areata Research Workshop and Future Research Directions," <i>Journal of Investigative Dermatology 96(5)</i> , Supplement:98S-100S (1991)			
	AZ		Friedmann, Peter S., "Clinical and Immunologic Associations of Alopecia Areata," Seminars in Dermatology 4(1):9-15 (1985)		
	AR2	Stenn, K.S. et al., "Expression of the bcl-2 Protooncogene in the Cycling Adult Mouse Hair Follicle," Journal of Investigative Dermatology 103(1):107-111 (1994)			
	AS2		et al., "Induction of A		
	AT2	Garcia, Irene et al., "Prevention of Programmed Cell Death of Sympathetic Neurons by the bcl-2 Proto-Oncogene," Science 258:302-304 (1992)			
	AU2	Allsopp, Timothy E. et al., "The Proto-Oncogene bcl-2 Can Selectively Rescue Neurotrophic Factor-Dependent Neurons from Apoptosis," Cell 73:295-307 (1993)			
-	AV2	Veis, Deborah J. et al., "Bcl-2-Deficient Mice Demonstrate Fulminant Lymphoid Apoptosis, Polycystic Kidneys, and Hypopigmented Hair," <i>Cell</i> 75:229-240 (1993)			
EXAMI		da Wegert	DATE CONSIDERED (C/2 S/	ØÌ	

FORM PTO (REV. 7	-80)	DISCLOSURE CITATION	ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194	
, IMI	IN AN A	PPLICATION	APPLICANT Barbara A. Gilchrest	et al.	
(Use several sheets if necessary)		~ \ \	FILING DATE February 4, 1998	GROUP 1614 1647	
1 - 01		CHER DOCUMENTS (Including Au		<u> </u>	
VEN.	<del>,                                     </del>	*			
SLW	AW2	Secretion of Biologic	, "Growth-regulated Sy ally Active Nerve Grow al of Biological Chemi	th Factor by Human	
	AX2		vidence for Nerve Grow Human Epidermis," <i>Jour</i>		
	AY2	Barinaga, Marcia "Dea How?" <i>Science 259</i> :762	th Gives Birth to the -763 (1993)	Nervous System. But	
	AZ2	_	et al., "Bcl-2 Function optosis," Cell 75:241-	H	
	AR3	Di Marco, Eddi et al., "Molecular Cloning of trkE, a Novel trk-related Putative Tyrosine Kinase Receptor Isolated from Normal Human Keratinocytes and Widely Expressed by Normal Human Tissues," Journal of Biological Chemistry 268(32):24290-24295 (1993)			
	AS3		l., "Induction of nerv human melanocytes," <i>I</i> (1988)	-	
	AT3	Barinaga, Marcia, "Cell Suicide: By ICE, Not Fire," <i>Science</i> 263:754-756 (1994)			
	AU3	Paus, R. et al., "Telogen skin contains an inhibitor of hair growth," British Journal of Dermatology 122:777-784 (1990)			
	AV3	Ross, Alonzo H. et al., "Characterization of nerve growth factor receptor in neural crest tumors using monoclonal antibodies," Proc. Natl. Acad. Sci. USA 81:6681-6685 (1984)			
	AW3	Halaban, R. et al., "Basic Fibroblast Growth Factor from Human Keratinocytes Is a Natural Mitogen for Melanocytes," <i>Journal of</i> Cell Biology 107:1611-1619 (1988)			
	AX3	Halaban, Ruth et al., "bFGF is the Putative Natural Growth Factor For Human Melanocytes," In Vitro Cellular & Developmental Biology 23(1):47-52 (1987)			
EXAMIN	EXAMINER DATE CONSIDERED (C/25/0)				

FORM PTO-1449 (REV. 7-80)			ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194	
			APPLICANT Barbara A. Gilchrest <i>et al</i> .		
OIP	- 25 J	eral sheets if necessary)	Filing date February 4, 1998	1614 /6 47	
OC1 5 E	6 1938 E	THER DOCUMENTS (Including Au	thor, Title, Date, Pertinent		
SLV SLV	MARKARITA		"Human $\beta$ -nerve growth ogous to that of mouse	_	
	AZ3	transfer: high titre selection markers and	nd Land, Hartmut, "Adv retroviral vectors wit a complementary helpe cids Research 18(12):3	h multiple drug r-free packaging	
	AR4	Johnson, Dan et al., Receptor," <i>Cell</i> 47:54	"Expression and Struct 5-554 (1986)	ure of the Human NGF	
i	AS4	Heuer, Josef G. et al., "Structure and Developmental Expression of the Chicken NGF Receptor," Developmental Biology 137:287-304 (1990)			
	AT4	Large, Thomas H. et al., "Structure and Developmental Expression of the Nerve Growth Factor Receptor in the Chicken Central Nervous System," Neuron 2:1123-1134 (1989)			
i	AU4	Radeke, Monte J. et al., "Gene transfer and molecular cloning of the rat nerve growth factor receptor," <i>Nature 325</i> :593-597 (1987)			
	AV4	Mitchell, Andrew J. and Krull, Edward A., "Alopecia areata: Pathogenesis and treatment," Journal of the American Academy of Dermatology 11(5)I:763-775 (1984)			
	AW4	Klein, Rüdiger et al., "The trk Proto-Oncogene Encodes a Receptor for Nerve Growth Factor," Cell 65:189-197 (1991)			
	AX4	Maisonpierre, Peter C. et al., "Neurotrophin-3: A Neurotrophic Factor Related to NGF and BDNF," Science 247:1446-1451 (1990)			
	AY4	Chao, Moses V. et al., "Gene Transfer and Molecular Cloning of the Human NGF Receptor," <i>Science 232</i> :518-521 (1986)			
	AZ4	_	"Transverse Microscopi Permatol. 120:449-456 (	-	
EXAMINE	R	de Meant	DATE CONSIDERED 10/25/6	i	

(REV. 7	FORM PTO-1449 (REV. 7-80) INFORMATION DISCLOSURE CITATION		ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194	
INFO	· IN AN APPLICATION		APPLICANT Barbara A. Gilchrest <i>et al</i> .		
OIP	- ~C.	eral sheets if necessary)	Filing DATE February 4, 1998	1614 16 47	
OCT 2	6 1998	THER DOCUMENTS (Including Au	thor, Title, Date, Pertinent	t Pages, Etc.)	
STA	MARKENIN		"Hair anatomy for the my of Dermatology 25(1		
	AS5	Gilchrest, Barbara A. FL., CRC Press, Inc.)	, "Skin and Aging Proc pp. 19-20 (1984)	esses," (Boca Raton,	
	AT5	Dermatology in Genera	et al., "Biology of Ha l Medicine, Thomas B. ter 19, (NY: McGraw-Hi (1993)	Fitzpatrick et al.	
	AU5	Bertolino, Arthur P. and Freedberg, Irwin M., "Hair," In Dermatology in General Medicine, Thomas B. Fitzpatrick et al. (Ed.), Section 10, Chapter 61, (NY: McGraw-Hill, Inc.) pp. 671-673, Fourth Edition, (1993)			
	AV5	Marchetti, D., et al., "Nerve Growth Factor Effects on Human and Mouse Melanoma Cell Invation and Heparanase Production,"  Int. J. Cancer, 55:692-699 (1993).			
	AW5	Spritz, R.A., et al., "Inhibition of Proliferation of Human Melanocytes by a KIT Antisense Oligodeoxynucleotide: Implications for Human Piebaldism and Mouse Dominant White Spotting (W)," J. Invest. Dermatology, 103(2):148-150 (1994).			
	AX5	Extends Viability But	" <i>bcl-2</i> Oncogene Blocks Does Not Immortalize <i>J. Oncology, 4</i> :1211-1	Normal Human	
	AY5	Nakayama, K., et al., "Targeted Disruption of Bcl2αβ in Mice: Occurance of Gray Hair, Polycystic Kidney Disease, and Lymphocytopenia," <i>Proc. Natl. Acad. Sci. USA</i> , 91:3700-3704 (1994).			
	AZ5	Ibáñez, C., et al., "Disruption of the Low Affinity Receptor-Binding Site of NGF Allows Neuronal Survival and Differentiation by Binding to the trk Gene Product," Cell, 69:329-341 (1992).			
EXAMIN	JER	La Wight	DATE CONSIDERED 10/25/0	;	

FCRM PTO-1449 (REV. 7-80) INFORMATION DISCLOSURE CITATION		DISCLOSURE CITATION	ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194
,		PPLICATION	APPLICANT Barbara A. Gilchrest	et al.
PE several sheets if necessary)		veral sheets if necessary)	FILING DATE February 4, 1998	1624 647
T2n	Σ 6 1998 g	THER DOCUMENTS (Including Au	thor, Title, Date, Pertinent	
\_	I THAN BOME	Selective for the Act in the G¹ Phase of the	., "Ras Proteins are E ion of Insulin-Like Gr e Cell Cycle in BALB/c Jatl. Acad. Sci. USA, 8	rowth Factor 1 Late Murine
	AS6		man Nevocellular Nevus t Membrane Components, 2 (1988).	
	AT6	Transcripts, and Prot	oce, C.M., "Analysis of ein Products, of <i>bcl-2</i> icular Lymphoma," <i>Proc</i> 86).	?, The Gene
-	AU6	International Search Report, International Application No.: PCT/US97/94966, mailed August 28, 1997		
	AV6		e trk Family of Recept rotrophin-3 Effects in 1550-1562 (1994).	
	AW6	to the Treatment of C	Growth Factor Pharmac Cholinergic Neurodegene Exper. Neurology, 124	eration in
	AX6		, et al., "Death of Ol action of Nerve Growth e, 383:716-719 (1996).	-
1	AY6	NGF Receptos Revealed	"A Potential Interacti by Affinity Crosslink J. Neuroscience Res.,	king and
	AZ6	Mahadeo, D., et al., "High Affinity Nerve Growth Factor Binding Displays a Faster Rate of Association Than p140 <sup>trk</sup> Binding," <i>J. Biol. Chem., 269</i> (9): 6884-6891 (1994).		
:	AR7	Frade, J.M., et al., "Induction of Cell Death by Endogenous Nerve Growth Factor Through its p75 Receptor," Nature, 383:166-168 (1996).		
EXAMI	NER	La Veger	DATE CONSIDERED (C)25/0	j

FORM PTO-1449 (REV. 7-80) INFORMATION DISCLOSURE CITATION	ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194		
IN AN APPLICATION	APPLICANT Barbara A. Gilch	rest et al.		
P EUSe several sheets if necessary)	FILING DATE February 4, 1998	1614 1647		
	ing Author, Title, Date, Per	tinent Pages, Etc.)		
1 × 7 × 101	ects of Nerve-Growth	_		
1 1 1	"The Role of Nerve G nocyte Apoptosis," Ab 104:572 (1995)			
3770	_	tential Role for heimer's Disease," <i>Mol</i> .		
7.770 #	"Immunohistochemical isease," Neuroreport,	evidence for apoptosis 5:2529-2533 (1994)		
AW7 ( Conserved Homolog	Oltvai, Z.N, et al., "Bcl-2 Heterodimerizes In Vivo with a Conserved Homolog, Bax, That Accelerates Programed Cell Death," Cell, 74:609-619 (1993)			
AX7 (NGF) and its me	Larkfors, L., et al. "Decreased level of nerve growth factor (NGF) and its messenger RNA in the aged rat brain," Brain Res., 427:55-60; (1987)			
AY7  and Brain Derived	Botchkarev, V.A., "New Roles for Neurotrophin-3, Neurotrophin-4 and Brain Derived Neurotrophic Factor: Involvement in Hair Growth Control," J Invest Dermatol., 110(4):48, Abstract #51 (1998)			
	ir Follicle Morphogens	-3 Involvement in the is," J Invest.		
● modulates keratin	M., Czarnetzki, B.M. nocyte proliferation i J. Dermatol. 130:174-1	•		
	1			
EXAMINER DATE CONSIDERED (UZS/0)				